7th largest medical school in nation

Busiest trauma center in the country

PET and coronary disease

Genetics of heart disease

Stem cell therapy

Stroke therapy with tPA

Nitric oxide signaling molecule

2011 Year in Review
The University of Texas Medical School at Houston
About the cover

40 years of excellence

The founding dean of The University of Texas Medical School at Houston, Dr. Cheves Smythe, came to the school in 1970, establishing its faculty, overseeing the curriculum, building its infrastructure, and shaping its future. He served as dean from 1970–75 and as dean pro tem from 1995–96. He continued to serve on the faculty until his retirement in August 2011. During those years, the Medical School experienced a tremendous growth in population, achievements, and stature. This annual report chronicles some of that history and recent accomplishments of fiscal year 2011, which ended Aug. 31, 2011.
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dean’s Message</td>
</tr>
<tr>
<td>3</td>
<td>About the Medical School</td>
</tr>
<tr>
<td>20</td>
<td>Faculty Accolades</td>
</tr>
<tr>
<td>22</td>
<td>Milestones</td>
</tr>
<tr>
<td>24</td>
<td>Departments</td>
</tr>
<tr>
<td>36</td>
<td>Clinical Partners</td>
</tr>
<tr>
<td>38</td>
<td>By the Numbers</td>
</tr>
<tr>
<td>43</td>
<td>Donor List</td>
</tr>
</tbody>
</table>
Dean’s Message

Thank you for reviewing our 2011 Annual Report, an overview of the recent accomplishments of our talented students, faculty, and staff.

Our Medical School recently celebrated its 40th anniversary—giving us the opportunity to reflect on where we started, what we have accomplished, and where we are headed. From a starting class of just 19 students, we have grown into a robust and productive institution and can clearly see the impact that our faculty and graduates have had on the field of medicine. Today, we are the seventh-largest medical school in the country, with more than 1,000 faculty members, a research portfolio approaching $200 million, and a $500 million clinical practice.

We continue to grow and welcome new faces to our campus and also to bid farewell to old friends as our founding faculty members retire. In August, our founding dean Dr. Cheves Smythe retired from our faculty and was named our first and only dean emeritus by the UT System Board of Regents. Building on Dr. Smythe’s vision, we are proud of our phenomenal students, the amazing growth and important discoveries of our research programs, and the recognized leadership of our clinicians as they care for patients across this community and also serve as role models for our trainees.

The following report encompasses many of the current projects and achievements under way at the Medical School and celebrates the milestones of our first 40 years. I thank each of you for the important contributions you have made throughout our school’s history and hope that you will continue to be a part of our brilliant future.

We are extremely proud of how far we have come but even more enthusiastic about what lies ahead.

Giuseppe N. Colasurdo, M.D., Dean and H. Wayne Hightower Professor in the Medical Sciences
The University of Texas Medical School at Houston
About the Medical School

Located in the prestigious and vibrant Texas Medical Center, The University of Texas Medical School at Houston has been blazing a course of excellence since it was established by the Texas Legislature on June 13, 1969.

The Medical School is the largest school of The University of Texas Health Science Center at Houston (UTHealth), which includes the School of Biomedical Informatics, the School of Dentistry, the School of Public Health, the School of Nursing, and the Graduate School of Biomedical Sciences. UTHealth also includes The University of Texas Harris County Psychiatric Center, and several interdisciplinary centers.

Clinical faculty practice as a part of UT Physicians, the Medical School’s medical practice, and the school’s primary hospital affiliations are with the Lyndon B. Johnson General Hospital and Memorial Hermann - Texas Medical Center.

Our Mission

The mission of The University of Texas Medical School at Houston is to provide the highest quality of education and training of future physicians for the state of Texas, in harmony with the state’s diverse population; to conduct the highest caliber of research in the biomedical and health sciences; and to provide exemplary clinical services in relationship to our educational and discovery activities.
Dr. LaTanya Love, seated center, is surrounded by members of the student UTH Acapella group, which performs for interviewing students.
“M”y family is from the Beaumont area, and as a child I would come down to spend the summers here,” she recalls.

She not only was born to live in Texas, but she was born to be a physician. Her grandfather was the first African-American physician in Beaumont, her brother is an orthopaedic surgeon and former resident at UT; her sister (deceased) was an obstetrician/gynecologist, and her husband is a geriatrician.

Dr. Love first came to the Medical School in the role of an internal medicine/pediatrics resident and also served as chief pediatrics resident. She completed her undergraduate training at Howard University and medical school at Texas Medical Branch at Galveston.

“We are lucky to have the Texas Medical Center as our teaching grounds and to experience such a wide variety of patients,” she explains of her choice to come to Houston. “UT is also a very supportive environment for students and residents with so many wonderful mentors, role models, and world-renowned experts.”

Dr. Love returned in 2006 to join the faculty, which included serving on the Admissions Committee and directing the Student Health Clinic.

“There is no substitute for this experience,” she says. “Our goal is to attract the best students, and I want to make sure they are successful once they get here as students.”

As assistant dean for admissions and student affairs, Dr. Love has worked hard to ensure students are equipped with the right tools for medical school success. These include mandatory preparatory workshops for the national exam, USMLE; study workbooks, and access to a computerized question bank.

“We found that our students were smart, but they weren’t performing as well as they could have on the standardized tests,” Dr. Love says. “They needed the tools to help them, and Dean Colasurdo was very supportive. If we find out they aren’t doing well on the practice test, we can push back the date of their exam and provide more support.”

The hard work and resources are paying off. Collectively, the students have bested the national average on the USMLE test by 10 points. The supportive environment from the administration – not just peers – is an evolution in the culture of the Medical School.

“We were always trying to train quality doctors. What I think has changed is that now as a school we offer more assistance for our students’ education. We want a supportive environment where students can excel and achieve their best,” Dr. Love says.
Dr. Lowe — Keeping the first-round draft picks at UT

Twenty-six years after graduating, Dr. Walter Lowe, ’83, has returned to the Medical School. This time as the chair of the Department of Orthopaedic Surgery.

I was back in Houston, working with Memorial Hermann’s Roger Clemens Sports Institute and with Baylor College of Medicine and had a message that Dean Colasuardo wanted to talk to me. He walked me to the class roster of 1983 on the ground floor, and pointed out my graduation picture. He said, “That’s you, and because that’s you, you’re coming to work here,” Dr. Lowe recalls.

Although he did not accept the position immediately, Dr. Lowe has been committed to his alma mater, building upon his dedication by seizing opportunities and growing the department.

“This was the place for me to do something different. There is great potential here, and the dean is very convincing. So I chose UT, and it was the right decision,” he says.

Back when he was a student, there was a dark Leather Lounge where students and faculty gathered on Fridays after classes, and the Department of Orthopaedic Surgery had just four faculty members and three residents per year. Today the Leather Lounge is bright and sunny, and the department boasts over 20 full time faculty among its ranks.

“But, we still have just three residents per year, even though our volume has increased 30-fold, and we have added a county hospital to service more patients,” Dr. Lowe says.

“With the addition of many highly specialized orthopaedic physicians, we are now in a position to train more residents.”

Despite the volume and caring for patients and teaching students and residents in the heart of the Texas Medical Center, it is trauma that puts the Department of Orthopaedic Surgery on the map.

With Houston’s population and Memorial Hermann’s Level 1 trauma center, orthopaedic trauma services are in high demand. The Orthopaedic Trauma Service serves the community 24 hours a day, 365 days a year, by providing the highest quality of fracture care. The Trauma team achieves this through innovative research, the education of future orthopaedic surgeons, and a commitment to clinical excellence.

“We have the volume and expertise,” Dr. Lowe says. “We just need more surgeons and expanded facilities so that we can increase publishing and broaden our translational research. We want to be that place of referral for everything that hasn’t worked out otherwise for trauma patients.”

Although Dr. Lowe’s clinical passion is treating patients with torn ACLs, his overarching goal is the long-term strengthening of the department.

“Our goal is to bring the expertise here and to grow it — to be the garden of orthopaedics. We need to keep people here for their whole careers,” he says. “It has to be about the program.”
When he is not seeing patients or training residents, Department Chair Dr. Walter Lowe is caring for such professional athletes as Houston Texans Mario Williams.
IMM, Medical School join research forces

Fiscal year 2010 saw the marriage of two giants within the UT Health Science Center at Houston – the Medical School and the Institute of Molecular Medicine – brought together to further strengthen research and enhance drug discovery.

The Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases (IMM) at The University of Texas Health Science Center at Houston was established in 1995 to study and prevent diseases at the genetic, cellular, and molecular levels using DNA, protein technologies, and animal models. Created as the flagship translational research institute of the Health Science Center, the IMM has the following specific areas of research focus:

- Human genetics
- Cardiovascular genetics
- Metabolic and degenerative diseases
- Stem cell research
- Immunology and autoimmune diseases
- Proteomics and systems biology
- Molecular imaging
- Senator Lloyd Bentsen and B.A. Bentsen Center for Stroke Research
- Texas Therapeutics Institute

In 2006, the IMM moved into its own building, the 229,000-square-foot Fayez S. Sarofim Research Building, which is located on Fannin Street adjacent to University Center Tower. In 2010, the IMM joined the Medical School as part of its operating structure, bringing its researchers and programs more closely in alignment.

“We have always had a collaborative nature as a translational research hub, yet we retain a degree of independence as we have created an environment of fantastic resources and faculty,” explains John Hancock, M.A., M.B., B.Chir., Ph.D., interim director of the IMM.

One of the areas of intense collaboration between the two institutions is stem cell research, with investigators coming together and developing regenerative medicine, from the translational side of the IMM and the clinical side of the Medical School, representing such departments as internal medicine, neurology, neurosurgery, and pediatrics.

“This cross-pollination allows us to build upon the strengths of one thematic, collaborative area with great potential,” Dr. Hancock says.

Another area that has translated into clinical application is the work of Eva Sevick, Ph.D., professor and holder of the Cullen Chair in Molecular Medicine. She and her lab have been working in concert with Memorial Hermann – Texas Medical Center and The University of Texas MD Anderson Cancer Center to develop a strong translational program with high-end imaging for lymphedema patients and their families to detect genetic changes and markers.

“Dr. Sevick’s program embodies what the IMM is all about – high-level collaboration with outcomes that are meaningful for patients,” Dr. Hancock explains.
Dr. Eva Sevick is professor and director of the Institute for Molecular Medicine’s Center for Molecular Imaging.
Drs. Sean Blackwell and Kathleen Kennedy lead National Institutes of Health network grants focused on improving the health of women and babies.
NIH network grants focus on improving women’s, babies’ health

A time of joy and celebration in a family’s life can swiftly turn to worry and fear upon learning a newborn baby is depressed at birth — presenting with a low heart rate and no respiratory effort.

Until recently, treatment for these term babies was to keep them on life support in hopes that their brains would recover, yet leaving them at high risk for long-term neurological problems, such as cerebral palsy and mental retardation.

Today, specialized nurseries throughout the world are cooling these infants with a cooling blanket to a body temperature of 92.3F for 72 hours. This innovative therapy is the result of a nationwide clinical trial led by The University of Texas Medical School at Houston as part of the National Institutes of Health Neonatal Research Network. Thanks to these leading efforts, the risk of disability and death for these fragile infants has been significantly reduced, and no adverse effects of this treatment have been identified.

Conducting carefully controlled multi-centered clinical trials resulting in improved treatments and better outcomes for babies and women is the goal of both the Neonatal Research Network and the Maternal Fetal Medicine Unit Network — both established by the National Institutes of Health in 1986.

The Medical School is just one of six institutions in the nation that holds both of these network grants, which are resulting in life-altering therapies by undertaking a rigorous and large-scale approach to scientifically applied medicine.

Both center grants have had a long history at the Medical School. The neonatal grant was brought to campus by Jon Tyson, M.D., M.P.H., vice dean for clinical research, in 1998. He has been the primary investigator on the grant since 1986, when he first obtained it while on faculty at UT Southwestern. The maternal fetal grant is led by Sean Blackwell, M.D., interim chair of the Department of Obstetrics and Gynecology and Reproductive Sciences. Both grants received five-year renewals from the National Institute of Child Health and Human Development in 2010.

The network grants have yielded dozens of studies and hundreds of manuscripts and papers, resulting in improved outcomes for women and babies.

Network centers are usually large academic centers that involve multidisciplinary research teams that see a large volume of patients. As a network center, Medical School pediatric and ob/gyn faculty are highly involved in designing study protocols, implementing clinical trials, analyzing and interpreting data, and reporting results.

“Randomized clinical trials are needed to separate the true effects of treatments from other factors that affect the outcomes,” says Kathleen Kennedy, M.D., professor of pediatrics and holder of the Richard Warren Mithoff Professor in Neonatal/Perinatal Medicine. “Large sample sizes are important for identifying relatively small incremental benefits that may be important to the patients and families.”

Even though the hypothermia treatment is now part of the routine care for infants in Houston and most other tertiary care centers around the world, the research does not cease.

“Ongoing studies are evaluating whether such treatment will be effective if started after 6 hours of age, whether a lower temperature or longer duration of hypothermia would be more beneficial, and whether the treatment is safe and effective in mildly premature infants,” Dr. Kennedy adds.
Spotlight:

Trauma, rehab

One of the Medical School’s primary affiliated teaching hospitals, took the national stage when U.S. Rep. Gabrielle Giffords began her rehabilitation in the Memorial Hermann-Texas Medical Center neuroscience intensive care unit after transferring from University Medical Center in Tucson, Jan. 21.

The Arizona congresswoman was shot in the head at pointblank range during a shooting rampage on Jan. 8. In a press conference immediately following Giffords’ transition to Memorial Hermann-TMC, medical teams from both hospitals described her transfer of care as “seamless.” Her highly skilled team of physicians was able to upgrade her condition from serious to good, and on Jan. 26, she was transferred to TIRR Memorial Hermann, where she underwent full-time rehabilitation as an inpatient until her discharge June 15.

During her next phase of recovery, Giffords received outpatient care in Houston. Her recovery from an injury that kills 95 percent of those who suffer it has been described as “miraculous.” Five months after her arrival at Memorial Hermann, the congresswoman’s unpredictable road to recovery from a traumatic brain injury (TBI) continues to be of national interest. At TIRR Memorial Hermann, Giffords and other patients with TBIs undergo daily, rigorous rehabilitation – including physical therapy, occupational therapy, recreational therapy, and even music therapy – to restore function. Every day is a milestone for these patients as they relearn practical tasks like brushing their teeth, speaking, or tying shoes.

For the past 21 years, TIRR Memorial Hermann has been ranked as one of the top five rehabilitation hospitals in the country by U.S. News & World Report. It is one of only six rehabilitation hospitals in the country designated as a Model System by the National Institute on Disability and Rehabilitation Research for its traumatic brain injury program.

“We’re like an orchestra,” says Gerard Francisco, M.D., chief medical officer of TIRR Memorial Hermann and chair of the Medical School’s Department of Physical Medicine and Rehabilitation, as he described TIRR Memorial Hermann’s team of physicians, nurses, and therapists who specialize in head trauma. “Together, the comprehensive rehabilitation services we provide expedite recovery and treat the whole person.

“Our multidisciplinary teams work closely with patients from day one to provide them with the skills they need to live independently, if possible, as well as strategies to cope with more permanent deficits after discharge. In rehabilitation, we develop the best combination of therapies for each patient and ultimately, help them create a ‘new normal’ for daily living.”

– Kimberly McGaw
Memorial Hermann-Texas Medical Center
UTHealth faculty Dr. Gerard Francisco, Dr. Dong Kim, and Dr. Imaigele Aisiku speak during a press conference about Rep. Gabrielle Giffords' condition.
Dr. Eric Thomas, seated left, and Dr. Jon Tyson, seated right, are surrounded by the vice chairs and chief quality officers of the Medical School.
The Medical School is leading the charge in tackling this challenge of physician error and patient safety at the macro and micro level. Dean Giuseppe Colasurdo has established the Office of Quality and Safety led by Jon Tyson, M.D., M.P.H., and Eric Thomas, M.D., M.P.H., who in turn, have appointed 22 vice chairs and chief quality officers to represent targeted areas of the Medical School’s 19 clinical departments.

“When it comes to quality and safety, you need to break down where the problem is occurring. That is why we have charged each clinical department with investigating this topic at their own level to see what strides they can make in their area,” explains Dr. Tyson, vice dean for clinical research and healthcare quality and Michelle Bain Distinguished Professor in Medicine and Public Health.

Traditionally, when clinical faculty meet to discuss departmental issues, the topics consist of number of patients and clinic schedules – not necessarily the quality of care. “This is a historical new structure for the Medical School and probably a first in academic medicine,” adds Dr. Thomas, associate dean for healthcare quality and Griff T. Ross Professor in Humanities and Technology in Health Care. “Quality of care has always been discussed more on the hospital side. Now we have a highly committed group led by the vice chairs working in conjunction with the hospital.”

In addition to spearheading their department colleagues in looking at safety and quality improvement measures, the vice chairs must complete individual coursework on comparative effectiveness and evidence-based medicine as offered through the Medical School’s master’s degree program.

“We are preparing for a time when physicians are paid on quality – not quantity,” Dr. Tyson explains.

Each department will be responsible for overseeing a health quality improvement project that will affect patient care outcomes.

The projects are making a difference. Dr. Bela Patel, associate professor of internal medicine, has been able to lead a charge eliminating ventilator-associated pneumonia in her section of the hospital, and Dr. Tyson is spearheading an effort to reduce hospital stays and admissions in high-risk infants, and now older children, by improving access to care by trained, committed physicians.

The quality and safety measures do not stop and start in the clinical setting. Student leaders have stepped up, organizing lectures and a club around these themes. And a specialized Healthcare Quality and Safety Concentration allows students to pursue specialized training during their four years of medical school.

“We know we will be sick someday,” Dr. Tyson says. “We want the quality of care we receive to be very good.”
Grateful patients remembered by a grateful physician

— as told by K. Lance Gould, M.D.

Al and Celia Weatherhead first came to me for medical evaluation, for a cardiac PET scan in 1992 and medical management of his coronary artery disease after a heart attack. He and Celia became interested in the innovative ideas of the PET technology and its integration into a comprehensive approach of managing coronary heart disease beyond the coronary arteriogram and bypass surgery that dominated heart care then.

Constantly ahead of conventional thinking, he wanted a pro-active alternative to bypass surgery, disability, or premature death. With characteristic intensity, he succeeded admirably with healthy food, hard workouts, and appropriate medications resulting in improved blood flow through his coronary arteries as shown by our advanced imaging technology, positron emission tomography, or PET.

An innate competitor, Al was a vigorous swimmer, reporting to me his weekly yardage and lap times in his home pool in Cleveland, Ohio. During one of his Houston visits, a good natured challenge arose between him and Dr. Jim Willerson, then president of UTHealth, also a known competitor and captain of his college swim team.

The race was a dead heat until just yards short of the finish. Al suddenly stopped in a big splash, breaking up laughing in the water while Jim touched the pool wall first, promptly also dissolving into laughter with a two winner bear hug and two endowed chairs.

From the beginning both Al and Celia were a part of our research and clinical team, involved in every step with weekly phone contact as colleagues in a vision of optimal cardiovascular management, as well as for Al’s own health. Al and Celia worked as a couple, an integral team on every project. They made their first funding gift to UT in 1994 for research to "test" what we did with it, to see if initial results supported our mutual vision of stabilizing, or reversing, coronary heart disease was confirmed non-invasively by improved coronary blood flow imaged using PET.

He also tested and stretched the entire UT System with his innovative ideas on charitable funding. As our results and scientific publications grew, so did their interest and support, culminating in establishing two endowed chairs and founding the Weatherhead PET Center for Preventing and Reversing Atherosclerosis at UTHealth with long-term endowment. The first chair was funded jointly with Martin Bucksbaum as the Martin Bucksbaum Distinguished University Chair, held by K. Lance Gould M.D. The second is the Weatherhead Distinguished Chair in Heart Disease, held by Stefano Sdringola M.D.

The adversities that he overcame with Celia’s help, in business and in health, bloomed into innovation given back in those same troubled areas of his life. Philosophy, introspection, action, pragmatism are commonly opposing extremes. Rarely, all come together in one piece or one person, as in Al Weatherhead.

As essential members of our research team, Al and Celia made possible major breakthrough studies in human coronary physiology and medicine reflected in 52 scientific publications in the best peer reviewed journals. The team of the Weatherhead PET Center for Preventing and Reversing Atherosclerosis will continue the Weatherhead legacy of creative commitment to healthy hearts to carry on with Celia their mutual vision and spirit.

Editor’s note. Al Weatherhead died Sept. 20, 2011, at the age of 86.
The author, Dr. K. Lance Gould, far right, with grateful patients Al and Celia Weatherhead.
Dr. Melissa Hudson — a passion for childhood cancer survivorship

An international leader in the field of pediatric cancer, Dr. Melissa Hudson, ’83, is the 2011 Distinguished Alumnus of the University of Texas Medical School at Houston.

Dr. Hudson has distinguished herself in the field of pediatric oncology, specifically in the area of pediatric Hodgkin's lymphoma and survivorship. She has published widely on her research initiatives in pediatric Hodgkin's lymphoma, late treatment sequelae after childhood cancer, and health education of childhood cancer survivors. “It’s wonderful to have my work in survivorship recognized,” she says.

The director of the Cancer Survivorship Division of the Department of Oncology at the University of Tennessee Health Science Center College of Medicine, Dr. Hudson also directs the After Completion of Therapy (ACT) Clinic at St. Jude’s Children’s Research Hospital, is a member of the Department of Oncology at St. Jude’s, and holds an endowed chair in oncology-cancer survivorship.

She became the director of the ACT Clinic in 1993, which monitors over 5,000 long-term childhood cancer survivors treated on St. Jude trials. As director, the ACT Clinic evaluation has evolved to include a series of focused educational interventions aiming to increase survivor knowledge about cancer and its associated health risks and to motivate the practice of health protective behaviors.

“During her tenure at St. Jude Children’s Research Hospital, Dr. Hudson has become an established expert on childhood cancer survivorship and treatment’s late effects – areas of notable clinical relevance with the swell in pediatric cancer survivors over the last few decades,” wrote her nominator.

“Additionally, Dr. Hudson is known as an exceptional clinician, committed mentor, generous collaborator, and beloved colleague.”

Dr. Hudson received her bachelor’s of science degree from Texas A&M University, completed a residency at the Medical School, and a fellowship in pediatric hematology-oncology at The University of Texas MD Anderson Cancer Center. She joined St. Jude’s and the University of Tennessee in 1989.

Graduating from the Medical School in 1983, she says she remembers the Medical School as the “new kid on the block” in the Texas Medical Center.

“Many of the professors and teachers were young, very approachable, and did a great job of exhibiting balance in their careers and personal life. I also remember diversity among my classmates – some had been accepted to medical school after having other careers. The diversity of their previous training and backgrounds made our classes and study groups interesting. And, of course, the hours and hours of studying with my fellow students, especially my husband – we married after the first year,” she recalls.

With many clerkship rotations through MD Anderson, Dr. Hudson says she found her niche on the pediatric service.

“It was a joy to see patients achieve long-term survival after a diagnosis of cancer,” she explains. “This experience provided the opportunity to manage both acute and chronic health issues in children and adolescents. It was some years later that I gained more appreciation about the ‘costs’ so many patients and their families paid for survival.”

Today, Dr. Hudson is involved in numerous funded research projects from the National Cancer Institute, and her research interests include protocol development and clinical investigations.

She is also the chair of the Childhood Cancer Survivor Study Education Committee and the American Society of Clinical Oncology’s Cancer Survivorship Committee.
Richard Andrassy, M.D., professor and Denton A. Cooley Chair in Surgery, has been honored with the Arnold M. Salzberg Award from the American Academy of Pediatrics, which is given to pediatric surgeons who have distinguished themselves as mentors to pediatric surgical trainees.

Lisa Armitige, M.D., Ph.D., adjunct assistant professor of medicine, is the 2010 winner of the Benjy F. Brooks Teaching Award, which recognizes individuals who complement and enhance the education program by serving as role models for students.

Frank Arnett, M.D., professor of internal medicine and holder of the Elizabeth Bidgood Chair in Rheumatology and Linda K. Finger Chair in Autoimmune and Connective Tissue Diseases, has been elected to Mastership of the American College of Physicians.

Colin Barker, M.D., assistant professor of internal medicine, received the Thomas J. Linnemeier Spirit of Interventional Cardiology Young Investigator Award from the Cardiovascular Research Foundation.

Daniel Corredor, M.D., is the recipient of the Alpha Omega Alpha 2010 Volunteer Clinical Faculty Award. The award is given annually to recognize a community physician who contributes with distinction to the education and training of clinical students.

Susan Denson, M.D., professor of pediatrics, was named the Medical Honoree of the 2010 Houston March of Dimes.

Valentin Dragoi, Ph.D., associate professor of neurobiology and anatomy, is one of 17 researchers to win a 2010 National Institutes of Health Director's Pioneer Award. The award supports scientists who propose revolutionary, high-impact approaches to major challenges in biomedical and behavioral research.

Stanford Goldman, M.D., professor of diagnostic and interventional imaging and urology, is the 2010 recipient of the Texas Radiological Society's Gold Medal Award for Outstanding Service to Radiology and Radiologists in Texas. He also received an honorary membership in the Royal Belgium Radiological Society.

Millicent “Mimi” Goldschmidt, Ph.D., professor of microbiology and molecular genetics, received the 2011 American Society for Microbiology Founders Distinguished Service Award.

Andrew Harper, M.D., assistant dean for educational programs and professor of psychiatry, is one of 15 recipients of the 2010 Minnie Piper Stevens Professor Award recognized for superior teaching.

Robert Hunter, M.D., professor and chair of the Department of Pathology and Laboratory Medicine, is the 2010 recipient of the George T. Caldwell Distinguished Service Award from the Texas Society of Pathologists – that organization’s most prestigious award.

Philip Johnson, M.D., professor of internal medicine, is the recipient of the 2010 Herbert L. and Margaret W. DuPont Master Clinical Teaching Award.

Utah State University’s Synthetic Bio-Manufacturing Center has named Samuel Kaplan, Ph.D., recently retired chair of the Department of Microbiology and Molecular Genetis, as its first center fellow.

Gus Krucke, M.D., assistant professor of internal medicine, is the 2010 recipient of the Leonard Tow Humanism in Medicine Award, which honors faculty who are exemplary in their compassion and sensitivity in the delivery of care to patients and their families, who administer scientifically excellent clinical care, and who serve as role models to students. He also is a 2010 recipient of the distinctive General Internal Medicine Statewide Preceptor Program Decade of Service Award.
Kevin Lally, M.D., professor and chair of the Department of Pediatric Surgery, was selected as the Administrative and Professional recipient of the UTHealth President’s Award for Mentoring Women.

James McCarthy, M.D., assistant professor of emergency medicine, has been appointed to the National American Heart Association’s Mission: Lifeline Emergency Cardiac Care Task Force.

John Milam, M.D., professor emeritus of pathology and laboratory medicine, received the College of American Pathologists Lifetime Achievement Award, which recognizes his broad and positive impact on the pathology profession over an extended time.

Octavio Pinell, M.D., professor of psychiatry and behavioral sciences, is the 2010 winner of the John P. McGovern Award, marking his seventh receipt of this award.

Michael Redwine, M.D., associate professor of radiology, has been selected by the American College of Radiology for fellowship in its organization.

The Smithsonian Latino Center in Washington, D.C., presented Adan Rios, M.D., associate professor of internal medicine, a 2009 Legacy Award in the field of science.

Richard Smalling, M.D., Ph.D., professor and holder of the James D. Woods Distinguished Chair of Cardiovascular Medicine, has been selected as a Top Cardiologist by the International Association of Cardiologists.

Run Wang, M.D., associate professor of surgery and the Cecil M. Crigler, M.D., Chair in Urology, was elected treasurer of the Sexual Medicine Society of North America.

O. Clark West, M.D., professor of diagnostic and interventional imaging, received the gold medal from the American Society of Emergency Radiology and also was named an American College of Radiology fellow.

Erik Wilson, M.D., associate professor and chief of the Division of Minimally Invasive & Elective General Surgery, has been elected president-elect of the Clinical Robotic Surgery Association.

Anthony Wright, Ph.D., professor of neurobiology and anatomy, has been elected fellow of the Society of Experimental Psychologists, the oldest and most prestigious honorary society in psychology.

Han Zhang, M.D., senior lecturer in the Department of Neurobiology and Anatomy, is the 2010 winner of the John Freeman Faculty Teaching Award.

Academy of Master Educators

The Academy of Master Educators is a formal organization of distinguished scholars recognized for their teaching and educational excellence and is committed to the enhancement of medical and graduate education. The organization inducted its first class in 2010.
JULY 1985
C. Frank Webber, M.D., is named the fourth dean.

ANUARY 1968
The affiliation between Jesse H. Jones Auditorium of the University of Houston and the Medical School of Texas is approved.  The UT/Texas Hospital the original affiliation with Memorial Hermann Hospital is approved.

JUNE 1969
The UT/Texas Medical School is awarded the second-year medical students orientation.

JUNE 1970
Eleven students is selected as the first class of 1970 entering class.  The new school is welcomed at the Medical School Building.

JULY 1970
Cheves McCord is named the sixth interim dean.

JULY 1975
Charles Berry, M.D., becomes the acting dean of deceased dean, Dr. Frank Webber.  Webber Plaza is dedicated in honor of Frank Webber.

ANUARY 1981
The UT/Texas Medical School Professional Building is completed.  The first group of 1981 entering class.

EPTEMBER 1982
Ferid Murad, M.D., and Pharmacology, chairman of the John P. M. Institute of Biomedical Sciences, is awarded the Nobel Prize in Physiology or Medicine.  The first issue of the Alumni Magazine is published.

AUGUST 1984
The Life Sciences Center, a two-story vivarium, home to four stories of laboratory space, opens for new students.

JULY 1985
F. Joel Kahan, M.D., is named the first dean of Tropics.

EPTEMBER 1986
The UT/Texas Medical School Positron Diagnostic and Research Center, Positron Cyclotron, opens.

EPTEMBER 1987
Construction is completed of the new six-story Replacement Building.  The Medical School is forced to close for an estimated $205 million in damages.

EPTEMBER 1988
Construction is completed of the new Phase II (523,760 gross-square feet) completion.  The UT/Texas Medical School Building is completed.

JUNE 1989
The John P. M. Institute of Biomedical Sciences (TRIMS) becomes the UT/Texas Medical School.

JULY 1989
Memorial Healthcare System purchases the Medical School Professional Building, causing the basement of the Freeman Building, connecting Medical School Building with Memorial Hospital, to make way for the opening of the replacement.

DECEMBER 1991
Construction is completed of the new Phase III construction of the new Memorial Hermann Hospital.

JULY 1992
The UT/Texas Medical School Building is completed.

JANUARY 1993
Construction is completed of the new UT/Texas Medical School Building.  The new UT/Texas Medical School Building is completed.

MAY 1994
Tropical Storm Allison devastates the University.

JUNE 1995
Construction is completed of the new UT/Texas Medical School Building.

APRIL 1996
Construction is completed of the new UT/Texas Medical School Building.  Phase II (523,760 gross-square feet) construction is completed.

MAY 1997
Construction is completed of the new UT/Texas Medical School Building.

MAY 1998
Construction is completed of the new UT/Texas Medical School Building.

MAY 1999
Construction is completed of the new UT/Texas Medical School Building.

APRIL 2000
Construction is completed of the new UT/Texas Medical School Building.  The UT/Texas Medical School Building is completed.

MAY 2001
Construction is completed of the new UT/Texas Medical School Building.

MAY 2002
Construction is completed of the new UT/Texas Medical School Building.

MAY 2003
Construction is completed of the new UT/Texas Medical School Building.

MAY 2004
Construction is completed of the new UT/Texas Medical School Building.

MAY 2005
Construction is completed of the new UT/Texas Medical School Building.  The UT/Texas Medical School Building is completed.

MAY 2006
Construction is completed of the new UT/Texas Medical School Building.

MAY 2007
Construction is completed of the new UT/Texas Medical School Building.

MAY 2008
Construction is completed of the new UT/Texas Medical School Building.

MAY 2009
Construction is completed of the new UT/Texas Medical School Building.

MAY 2010
Construction is completed of the new UT/Texas Medical School Building.  The UT/Texas Medical School Building is completed.

MAY 2011
Construction is completed of the new UT/Texas Medical School Building.

MAY 2012
Construction is completed of the new UT/Texas Medical School Building.

MAY 2013
Construction is completed of the new UT/Texas Medical School Building.

MAY 2014
Construction is completed of the new UT/Texas Medical School Building.

MAY 2015
Construction is completed of the new UT/Texas Medical School Building.

MAY 2016
Construction is completed of the new UT/Texas Medical School Building.

MAY 2017
Construction is completed of the new UT/Texas Medical School Building.

MAY 2018
Construction is completed of the new UT/Texas Medical School Building.

MAY 2019
Construction is completed of the new UT/Texas Medical School Building.

MAY 2020
Construction is completed of the new UT/Texas Medical School Building.
Biochemistry and Molecular Biology

Rodney E. Kellems, Ph.D.
Professor and Chair

As a basic science department in a research intensive medical school, the major mission of the Department of Biochemistry and Molecular Biology (BMB) is to conduct innovative and important biomedical research. BMB is host to a diverse array of multidisciplinary research programs ranging from the analysis of molecules, membranes, mice, and men. Basic biomedical research is conducted in cell biology, structural biology, genetics, immunology, microbiology, and neurobiology. In addition, preclinical and translational research is carried out in areas of pulmonary disease, cardiovascular disease, hypertension, visual disorders, and sickle cell disease. These interdisciplinary approaches taken by our faculty provide meaning to the term “molecular medicine.” BMB annual research expenditures total nearly $8.5 million from the 43 active projects, which are derived from a diverse collection of funding organizations, including the NIH, NSF, DOE, DOD, AHA, MDA, CPRIT, the Robert A. Welch Foundation, the Pew Charitable Trust, the Hermann Eye Fund, and numerous industry contracts. BMB is home to two research centers that represent areas of research strength within the department: the Center for Membrane Biology and the Structural Biology Imaging Center. BMB faculty members are involved in productive collaborations with many faculty members from other departments at the Medical School and in this way enhance the overall research environment of the Medical School. In addition, BMB faculty members are effective contributors to numerous medical school and graduate school educational programs.

Major research highlights from this year include the molecular analysis of individual neurotransmitter receptors at work one at a time (Dr. Vasanthi Jayaraman – featured article in *Nature Chemical Biology*), structural and functional analysis of calcium channels and exchangers important in cardiac function (Drs. Lei Zheng and Irina Serysheva – two papers published in *Structure*), and novel therapeutic approaches for the treatment of sickle cell disease (Dr. Yang Xia – featured article in *Nature Medicine*).

NUMBERS

Faculty: 28
Graduate Students: 15
Postdoctoral/Research Fellows: 22
Research Expenditures: $8,304,795

www.bmb.med.uth.tmc.edu

Anesthesiology

Carin A. Hagberg, M.D.
Professor and Chair
Joseph C. Gabel, M.D.,
Chair in Anesthesiology

The mission of the Department of Anesthesiology is to achieve and demonstrate excellence in the clinical care of patients and in academics both through innovative research and by offering a stellar educational program.

Anesthesiology faculty members are respected for their dedication to research, education, and clinical training. Our clinical faculty provide anesthetic services at Memorial Hermann – Texas Medical Center, Memorial Hermann Ambulatory Surgery Center, the Memorial Hermann Heart and Vascular Institute, as well as at Lyndon B. Johnson General Hospital. Additionally, we have basic science faculty dedicated to research on decompression sickness as an inflammatory disease, lung function in prolonged heart failure, skin perfusion and transcutaneous oximetry testing of hyperbaric patients, as well as the efficacy of new therapeutic medication in the treatment of diabetic foot ulcers.

Our goal is to create an environment conducive to our department’s mission to train our residents to become excellent anesthesiologists and perioperative physicians. We aim to graduate broadly educated, well-rounded practitioners with the abilities and resources to enter with confidence any aspect of anesthetic practice.

We are in the process of expanding our services in many areas, including both acute and chronic pain management, as well as increasing our participation in the intensive care setting. Additionally, we will be conducting further training of our residents and medical students in the Surgical and Clinical Skills Center through simulation training and cadaver workshops.

www.uth.tmc.edu/anes

NUMBERS

Faculty: 62
Residents: 69
Interns: 10
Fellows: 3
Research Expenditures: $359,787
Patient Encounters: 46,000

2011: Year in Review
Our faculty care for patients at Memorial Hermann Heart & Vascular Institute and are world leaders in the treatment of heart and blood vessel problems, including heart valves, heart blood supply, and blood circulation throughout the body.

Our innovative techniques have resulted in critical advancements in the repair of ballooning blood vessels – preventing rupture and significantly improving outcomes. Surgeons of the department have been leaders in the field of aortic surgery for three decades, developing and perfecting all aspects of aortic disease management. Procedures involve clinical investigation with the goal of optimizing techniques of repairs of the ascending, transverse, arch, and thoracoabdominal aorta. Refinement in techniques are being investigated to provide multiorgan protection. Also we have first-class thoracic surgeons dedicated to thoracic diseases, benign and malignant esophageal, lung and mediastinal disease. The department has one of the world’s largest aortic surgery practices and as such is a major center for device development research, participating in numerous clinical trials.

We are actively involved in the NIH-funded specialized center grant (SCCOR) in collaboration with Dr. Dianna Milewicz in the Department of Internal Medicine. Faculty in our department collaborate actively with the educational and research programs of the Medical School’s Center for Clinical Research and Evidence-Based Medicine in teaching and mentorship programs as well as in the administration of the NIH-funded K12 program in connection with the Center for Clinical and Translational Sciences.

As faculty members, we train the next generation of world-class surgeons. Our faculty have published more than 200 articles in medical journals to document their work and travel worldwide to share their expertise.
Diagnostic and Interventional Imaging

Susan D. John, M.D.
Professor and Chair
John S. Dunn Distinguished Chair in Radiology

The Department of Diagnostic and Interventional Imaging supports a broad spectrum of healthcare needs and provides the educational and research initiatives of a radiology department at the forefront of modern medicine.

This is made possible through our affiliation with our teaching hospitals, Memorial Hermann – Texas Medical Center and the Lyndon B. Johnson General Hospital. Our department interprets more than 585,000 radiological procedures per year. Providing sub-specialized quality service to our patients and their referring physicians is actively maintained through a high-profile performance improvement program.

Teaching is fundamental to our mission, and we are proud of the well-recognized qualifications of our faculty. Our training programs not only capitalize on the educational opportunities at our affiliated teaching hospitals but also benefit by sharing residency and fellowship training programs with other internationally recognized radiology departments, including M. D. Anderson Cancer Center, St. Joseph’s General Hospital, Texas Children’s Hospital, and St. Luke’s Hospital. Together we offer a premier educational environment staffed by an internationally recognized faculty.

World-class research in MR, PET, nuclear medicine, and ultrasound are hallmarks of our department, with many of our basic science faculty and clinical faculty achieving international status as leaders in their fields.

[Website Link]

NUMBERS
Faculty: 55
Residents: 51
Fellows: 5
Procedures: 585,000
Research Expenditures: $1,936,357

Emergency Medicine

Brent King, M.D.
Professor and Chair
Nancy, Clive and Pierce Runnells Distinguished Chair in Neuroscience of the Vivian L. Smith Center for Neurological Research and Nancy, Clive and Pierce Runnells Distinguished Professor in Emergency Medicine

The Department of Emergency Medicine is proud of its commitment to clinical and educational excellence, academic rigor, and superior service.

We believe that emergency medicine is best taught by emergency physicians and best learned in the emergency department. To that end, our curriculum emphasizes emergency department experiences coupled with carefully selected rotations intended to augment the residents’ skills. As hard as we have worked to make our curriculum strong and effective, it remains a work in progress. We constantly evaluate the program to ensure that we continue to meet the needs of the next generation of emergency physicians.

Our primary focus is the training of emergency medicine residents. When a resident completes our program, we believe that he or she is prepared to practice in any emergency department, anywhere. This preparation includes not only superior clinical skills but also the interpersonal skills critical to the effective practice of emergency medicine.

In an effort to promote collaboration among our faculty and our colleagues at The University of Texas and to focus on the clinical strengths of our two emergency departments, the department’s clinical researchers list the following opportunities as our primary research foci: research involving the acute care of the injured heart, brain, and vascular system; public health and prevention research; research involving the medical or traumatic presentation of shock; and research involving health informatics and emergency medicine processes.

We provide clinical expertise at Lyndon B. Johnson General Hospital, Memorial Hermann – Texas Medical Center, Children’s Memorial Hermann Hospital, Sugarland Pediatric, Memorial Hermann Memorial City Pediatric, and Memorial Hermann Woodlands Pediatric.

[Website Link]

NUMBERS
Faculty: 39
Residents: 32
Fellows: 2
Research Expenditures: $1,163,180
Patient Encounters: 126,931
Family and Community Medicine

Carlos A. Moreno, M.D., MSPH
Professor and Chair
C. Frank Webber Chair in Family Medicine

We have a diverse faculty and staff committed to excellence in patient care, teaching, research, and community service. Our faculty are involved in a wide range of activities, including medical student education and family medicine residency training.

We offer multiple sites for comprehensive family care and children, including screening and prevention of disease and ambulatory procedures such as flexible sigmoidoscopy, exercise stress testing and exercise prescription, and vasectomy. Our faculty and residents provide low-risk maternity care, care for newborns and children, as well as adult medical care covering a wide spectrum of common diseases. Several of our faculty have special expertise in geriatrics and sports medicine.

One of our residency program’s strengths is its training of physicians to care for urban underserved populations. We also emphasize the bio-psycho-social approach to medical care. Our residents also are trained to use the transtheoretical model of behavior change to encourage their patients to make healthy lifestyle changes.

Our Urban Program coordinates medical services, educational activities (both medical student and resident), research, community outreach, and health profession interdisciplinary endeavors at the Harris County community health centers that serve the Lyndon B. Johnson General Hospital with a goal to provide quality health care to all patients.

We deliver high quality patient care at multiple sites in both ambulatory and inpatient settings, including UT Physicians Family Medicine, HCHD-Acres Home Clinic, UT Physicians-Bellaire, UT Physicians Sienna Village, HCHD-Aldine Clinic, Physicians Surgicenter of Houston, HCHD-Baytown Clinic, St. Dominic’s Assisted Living Unit, HCHD-Settlegast Clinic, St. Dominic’s Nursing Home, HCHD-Squatty Lyons Clinic, Memorial Hermann – Texas Medical Center, and Lyndon B. Johnson General Hospital. The department has developed alliances with community family physicians and has expanded the university’s clinical practice at UT Physicians-Bayshore.

ibp.med.uth.tmc.edu

Integrative Biology and Pharmacology

John F. Hancock, MA, MB, BChir, Ph.D.
Professor and Chair
Fondren Chair in Cellular Signaling

The research interests of the Integrative Biology and Pharmacology (IBP) faculty focus on the cell biology, physiology, and pharmacology of cell regulation and communication.

Major research themes include the molecular mechanisms and spatiotemporal dynamics of membrane signaling; intracellular and metabolic signaling; the biology and physiology of cell-cell interactions; and the use of computational, structural, and systems approaches to decipher signaling networks. These efforts are broadly aimed at understanding how normal and abnormal cell function translates into whole animal physiology and pathophysiology and at exploring the molecular pharmacology of existing and novel therapeutics.

In this context, we have expanding programs in cancer cell biology, cardiovascular biology, tissue regeneration and plasticity (especially in nerve and muscle), and neuronal signaling in injury, inflammation, and pain. IBP faculty teach physiology and pharmacology to medical and dental students, run a graduate studies program in cell and regulatory biology, and a training grant in pharmacoinformatics.

IBP faculty enjoyed substantial grant success this year. Three of our recent recruits deserve particular mention: Assistant professor Dr. Rebecca Berdeaux secured two new NIH R01 grants, an outstanding achievement for any level of faculty, but especially so for a new investigator; assistant professor Dr. Jeff Chang obtained a $2M recruitment award from CPRIT when he joined IBP as a CPRIT Scholar, and assistant professor Dr. Oleh Pochynyuk received a Gottshalk Scholarship from the American Society of Nephrology. Among our senior faculty, associate professor Dr. Jeff Frost began work on his prestigious CPRIT single investigator award, and professor Dr. Michael Zhu added a third NIH R01 to his already extensive grant portfolio.
**Internal Medicine**

David D. McPherson, M.D.
Professor and Chair
The James T. and Nancy B. Willerson Chair

The Department of Internal Medicine strives to improve the quality of health care through excellence in the education of students, residents, physicians, and the public; the advancement of biomedical knowledge through discovery, integration, and translation to the clinical setting; and the provision of state-of-the-art comprehensive, compassionate, and accessible patient care.

The department has undergone exponential growth over the past few years in basic and clinical research as well clinical patient care to become one of the largest academic departments of medicine in the country.

The scope of our department is best illustrated through our 13 divisions: Cardiovascular Medicine; Endocrinology and Diabetes; Gastroenterology and Hepatology; General Internal Medicine; Geriatric and Palliative Medicine; Hematology; Infectious Diseases; Medical Genetics; Oncology; Pulmonary, Critical Care and Sleep Medicine; Renal Diseases and Hypertension; and Rheumatology.

The department’s clinical services span the continuum of primary care to subspecialty care. Excellent clinical care is provided at UT Physicians-Medical Center, Bellaire, and Sienna facilities; Memorial Hermann – Texas Medical Center; Memorial Hermann Northeast; Memorial Hermann Southeast; TIRR Memorial Hermann; and Lyndon B. Johnson General Hospital.

**Microbiology and Molecular Genetics**

Theresa M. Koehler, M.D.
Professor and Interim Chair
Herbert L. and Margaret W. DuPont Professorship in Biomedical Science

The Department of Microbiology and Molecular Genetics is highly committed to excellence in research and education. The faculty have diverse research interests and expertise related to the biology, pathogenesis, and molecular genetics of a wide variety of prokaryotic and eukaryotic microbes.

The faculty are internationally recognized leaders in microbiology and molecular genetics and are committed to medical and graduate education. The department is home to the Graduate Program in Microbiology and Molecular Genetics and also offers the Medical Microbiology course taken by first-year medical students.

The department has a state-of-the-art imaging facility that is available for all researchers in the Medical School. The facility houses a confocal microscope and a cryo-transmission electron microscope with electron tomography capabilities. Other resources in the department include an ABI Real-Time PCR instrument and a Biacore surface electron plasmon resonance system.

Research in Dr. Michael Lorenz’s laboratory has shown that the important fungal pathogen *Candida albicans* has an unprecedented ability to manipulate its extracellular environment by neutralizing the normally acidic conditions and, in doing so, it activates several important traits known to be required during infection. Dr. Lorenz and post-doctoral associate Dr. Slavena Vylkova recently published this work with in the open-access journal *mBio* this summer.

The Dr. Heidi Kaplan laboratory is modeling surface-associated infections including orthopaedic, intestinal, and dental infections. Working in collaboration with Dr. Herbert DuPont at the UT School of Public Health, Dr. Kaplan’s group has obtained a preliminary patent on a novel one-step method to detect and isolate virulent *Clostridium difficile*, which is the leading definable cause of nosocomial diarrhea worldwide.

The Dr. Danielle Garsin laboratory studies the mucosal host immune response to infectious microbes using *C. elegans* as a model. Recent investigations have revealed that the ability of mucosal surfaces to produce reactive compounds is crucial to surviving infection. Current work is establishing the molecular basis for this response to infection.

**NUMBERS**

- Faculty: 188
- Residents: 139
- Fellows: 199
- Research Expenditures: $25,249,458
- Outpatient Encounters: 62,462
- Inpatient Encounters: 79,548

**NUMBERS**

- Faculty: 12
- Graduate Students: 27
- Postdoctoral/Research Fellows: 16
- Research Expenditures: $3,149,891
Neurobiology and Anatomy

Neuroscience is considered by many to be one of the last frontiers of the biomedical sciences. The Department of Neurobiology and Anatomy is committed to being at the forefront of these discoveries.

One of the largest neuroscience departments in North America, the department’s missions include biomedical research in anatomy/neuroanatomy, biophysics/electrophysiology, computational neuroscience, learning and memory, molecular neurobiology, neuropharmacology/neurochemistry, neuronal circuits, primate neurobiology, synaptic/cellular plasticity, and vision. Department faculty also teach medical and graduate courses in neuroscience, gross anatomy, developmental anatomy as well as some dental courses.

The department manages the Neuroscience Research Center, the W.M. Keck Center for the Neurobiology of Learning and Memory, the Willed Body Program and Human Structure Facility, and several of the Medical School’s core research facilities.

Research in Dr. Michael Beierlein’s laboratory has shown that the neurotransmitter GABA – usually thought to act as an inhibitory transmitter throughout the brain – excites neurons in the thalamus, a brain area important for the processing of sensory information. Insights gained from these studies will be critical to understand certain forms of epilepsy that are linked to thalamic dysfunction.

Dr. Terry Crow described changes in the abundance of identified proteins associated with short- and intermediate-term memory following one-trial conditioning using two-dimensional difference gel electrophoresis (2-D DIGE) and tandem mass spectrometry.

Dr. Valentin Dragoi was awarded the NIH Director’s Pioneer Award, and he published three new groundbreaking articles on population coding in visual cortical neuronal networks.

Dr. Anthony Wright compared the short-term memory capacity of humans and animals (rhesus monkey).

www.uthouston.edu/nbme/

NUMBERS
Faculty: 28
Postdoctoral Fellows: 29
Research Expenditures: $7,307,192
Neurology

The mission of the Department of Neurology is to provide a comprehensive learning environment for future neurologists, perform groundbreaking research in the field of neurology, and provide cutting-edge care for patients who cross through the thresholds of our clinical sites.

All of our specialty programs focus on the clinical applications of the latest neurological research. The Stroke Program has been continuously funded to translate new therapies from their laboratories to bedside testing and is a national leader in treatment and research of acute stroke. The Multiple Sclerosis Research Group focuses on fundamental and applied research approaches in neuroimmunology and advanced magnetic resonance imaging to better understand the pathogenesis and treatment of multiple sclerosis. The Neuromuscular Program is focused on providing the latest state-of-the-art clinical care to patients with neuromuscular disorders. The Texas Comprehensive Epilepsy Program and its Epilepsy Monitoring Unit at Memorial Hermann – Texas Medical Center offer a comprehensive diagnostic and therapeutic program for pediatric and adult epilepsy patients and their physicians. The movement disorders program (UT MOVE) also embodies a comprehensive diagnostic and therapeutic program for patients with Parkinson’s disease and similar disorders, and both the movement and epilepsy programs collaborate with our neurosurgical colleagues to treat refractory cases. Our newest program is in cognitive disorders and dementia and includes both a multidisciplinary clinical diagnostic and treatment program and groundbreaking research in the Mischer Neuroscience Institute. Finally, our diagnostic neurology group of expert clinicians is always available for evaluating and treating new patients referred for any sort of neurological condition.

In addition to Memorial Hermann – Texas Medical Center and the UT Physicians Neurology Clinic in the Texas Medical Center, our clinical venues also include UT Physicians Bellaire, The Institute for Rehabilitation Research, Lyndon B. Johnson General Hospital, and MLK clinic.

numeros.uth.tmc.edu

The Vivian L. Smith
Department of Neurosurgery

We are currently the largest neurosurgery group in Houston in terms of numbers of faculty, NIH grants received, and total research expenditure. We are the #1 neurosurgery program in terms of market share. We also have started robust educational programs.

Our clinical program, run through the Mischer Neuroscience Institute of Memorial Hermann in collaboration with Neurology, has grown significantly in the past four years, more than doubling in size. At the same time, our quality has improved. Our mortality rates are below the benchmark of our peers in the University HealthSystem Consortium (UHC). In addition, complication rates at the MNI are also below national standards as compared to UHC and Healthgrades organizations.

We are proud of our educational activities. Currently, about a quarter of UT medical students rotate through neurosurgery during the third year, a dramatic increase from prior years. The Neurosurgery Residency Training Program was begun in July 2008. In July 2011, we were given an unconditional 5-year certification after review, and our resident complement was approved to increase to 2 per year (for a total of 14). Most neurosurgery residencies nationally support 1 resident per year. We have three fellowships, in cerebrovascular and skull base surgery, neuro critical care, and endovascular neurosurgery.

Research is a high priority for us. In 2010, we were #11 in NIH grant funding among neurosurgery departments nationally. We have 9 PhD faculty, and many clinicians are involved in research projects. Current direct spending exceeds $5 million per year. The Vivian L. Smith Foundation for Neurologic Research has provided substantial support and in recognition, the Department was officially renamed in 2010 for Mrs. Vivian Smith. In addition, our department forms a major component of the UT Center for Regenerative Medicine, a collaboration with Pediatric Surgery and Internal Medicine.

numeros.uth.tmc.edu/schools/med/neurosurg

NUMBERS
Faculty: 35
Residents and Fellows: 29
Research Expenditures: $12,142,946
Patient Encounters: 12,378

numeros.uth.tmc.edu

NUMBERS
Faculty: 32
Residents: 9
Research Expenditures: $3,879,401
Patient Encounters: 4,377
Our department consists of two divisions: General Obstetrics & Gynecology and Maternal-Fetal Medicine. Our physicians provide coverage at Memorial Hermann – Texas Medical Center and Lyndon B. Johnson General Hospital. Faculty members are involved in patient care, education, research, and community service.

Our faculty offer special expertise to patients in all aspects of women’s health, including normal and high-risk pregnancies, reproductive endocrinology and infertility, gynecologist oncology, and general gynecology. We offer our patients minimally invasive techniques such as laparoscopy, hysteroscopy and robotic surgery; urogynecology; hormonal and menopausal management; a full range of contraceptive options, including intrauterine devices, subcutaneous contraceptive implants, and hysteroscopic sterilization; as well as well-woman and preventive health care.

As a university, we have a commitment to medical student and resident physician education. We have two fully accredited residency programs in obstetrics and gynecology and offer a fully accredited three-year fellowship in maternal-fetal medicine.

In the Division of General Obstetrics and Gynecology, our goal is to provide superior medical care for women of all ages. Each member of the division is skilled in general obstetrics, benign gynecology, obstetric procedures, and gynecologic surgery.

The Division of Maternal-Fetal Medicine provides care in several forums. We offer consultations to patients with high-risk obstetrical problems, referred by their regular obstetrician.

NUMBERS
Faculty: 43
Residents at MH-TMC program: 24
Residents at LBJ program: 23
Fellows (Maternal Fetal Medicine): 3
Research Expenditures: $1,221,046
Patient Encounters: 70,031

obg.med.uth.tmc.edu

The Ruiz, M.D., Department of Ophthalmology and Visual Science provides a full complement of inpatient and outpatient clinical services through its primary teaching facilities: the Cizik Eye Clinic, Memorial Hermann – Texas Medical Center, Children’s Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, Settegast Community Health Center, Baytown Community Clinic, and Acres Home Community Health Center.

The ophthalmic subspecialties represented in the Cizik Eye Clinic include ophthalmic plastic, reconstructive, and orbital surgery; corneal and external disease, refractive surgery, glaucoma, retina, vitreous, and uveitis; pediatric ophthalmology; and neuro-ophthalmology. All of the physicians at the Cizik Eye Clinic are faculty members in the department, are board certified by the American Board of Ophthalmology, and are on the medical staffs of numerous facilities, most notably that of Memorial Hermann – Texas Medical Center.

In addition to clinical care, ophthalmology and visual science faculty are at the forefront of research into anatomy and physiology of the eye as well as the causes and treatments of ocular disease. The department is known as a leading center for the design and development of clinical trials in ophthalmology.

The Department of Ophthalmology and Visual Science is involved in the education of undergraduate, graduate, and post-graduate students as well as residents and fellows in a variety of fields of medicine. At the core of the department’s educational mission is to train medical students on the basics of eye care they will need regardless of the field of medicine they choose and develop the next generation of leaders in the field of ophthalmology, its subspecialties, and related areas of research.

NUMBERS
Faculty: 25
Residents: 10
Fellows: 2
Research Expenditures: $3,403,911
Patient Encounters: 42,108

uth.tmc.edu/ophthalmology
Orthopaedic Surgery

The Department of Orthopaedic Surgery continues to grow while fulfilling our mission to provide expert medical care in a professional, effective, and cost-conscious manner as we encourage a multi-disciplinary team approach to address the needs of the patient as a whole person.

To accomplish this goal, we engage our students, residents, and faculty in providing both medical care and health education to members of our community; we stimulate and foster scholarly research in both basic and applied medical science as we continue to create and evaluate new knowledge, particularly as it relates to the cause, prevention, and treatment of musculoskeletal conditions; we provide the best possible educational experience for both students and faculty as we empower them to effectively apply their orthopaedic knowledge; and we will seek to develop in our students, faculty, and staff those qualities that will be critical to leadership as we meet the challenges of healthcare in the 21st century – integrity, professionalism, scholarship, collegiality, creativity, and compassion.

Our research mission is to apply basic science and implement it into the clinical setting to better serve patients. Our faculty continue to focus on funding for their research and making advances in the field of musculoskeletal medicine and orthopaedic surgery. Our research facilities include the Orthopaedic Biomechanics Laboratory where we perform both experimental and computational research. The department also is home to a Bone Histomorphometry Laboratory and a Dual Energy X-Ray Absorptiometry (DXA) lab.

Our department comprises 22 faculty with training and experience in joint replacement, spine, oncology, trauma, sports medicine, shoulder and elbow, hand, foot and ankle, and pediatrics. Clinical care is provided at Memorial Hermann – Texas Medical Center, Katy, Sugarland, UT Physicians-Bellaire, and Lyndon B. Johnson General Hospital. Through our dedication to patient care, education, and research, we are able to provide the best and most appropriate care to our patients.

Martin J. Citardi, M.D.
Professor and Chair

Ototorhinolaryngology - Head and Neck Surgery

The Department of Otorhinolaryngology–Head and Neck Surgery focuses on the care of patients with complex diseases and disorders of the ears, nose, and throat. The department’s full-time faculty members provide world-class patient care and participate in a variety of academic activities for education and research. Their knowledge and expertise has earned them regional, national, and international recognition.

The Department of Otorhinolaryngology-Head & Neck Surgery’s mission is to provide the best possible ear, nose, and throat care for our patients. Patient care is provided at Memorial Hermann Medical Plaza, Memorial Hermann – Texas Medical Center, and Children’s Memorial Hermann Hospital. In 2010, the department opened a new clinical office at Memorial Hermann-Southwest.

Specialized programs within the department include the Texas Sinus Institute (www.texas sinus.org), the Texas Skull Base Physicians (www.texas skullbase.org) and the Texas Voice Performance Institute (www.texas voice.org). In addition, the department has established programs for facial plastic surgery, pediatric ENT, otology, ENT sleep disorders, and head and neck surgery.

The department sponsors a robust educational program, which includes an otolaryngology residency training program as well as two clinical fellowships (rhinology and facial plastic surgery). The department’s CME programs include Advanced Rhinology Concepts (www.sinus course.com), Otorhinolaryngology Frontiers (www.orl frontiers.org), and Otolaryngology Update (www.ut orlupdate.org) and ORL Progress Notes (www.orl progressnotes.org).

Physicians from the department perform clinical and basic science projects since the faculty members strongly believe that the department’s research efforts drive the innovation necessary to provide tomorrow’s advances. The major emphasis of the translational science program is the characterization of the mechanisms for chronic rhinosinusitis.
The goal of the Department of Pathology and Laboratory Medicine is to combine the traditional values of academic pathology – excellence in service, teaching, and research – with innovative approaches to the new challenges of medicine and science. We strive to become a model of excellence in the changing world of medicine.

The department includes 46 full-time clinical and research faculty as well as many joint appointment, part-time, and adjunct faculty.

Clinical and basic research are major aspects of the department’s programs. Almost all faculty are engaged in research with the aim of discovering new knowledge and/or developing ways to apply new knowledge to improve diagnosis and management of disease.

Centers and facilities include the Imaging Core Lab, the Chemical Immunology Research Center, the Treponema Molecular Genetics Server, the Electron Microscopy Laboratory, and Research Training in the Molecular Basis of Infectious Disease.

The Outreach Laboratory is fully accredited and staffed by pathologists with subspecialty expertise in many areas. Our goal is to provide the specialized expertise of the UT pathologists to practicing physicians in an efficient, cost-effective, and user-friendly manner.

The department directs a fully accredited residency training program, is extensively involved in the Medical School curriculum, and plays an active role in the training of graduate students in the affiliated Graduate School of Biomedical Sciences.

Our teaching hospitals provide a diverse patient population and exposure to a wide spectrum of human disease.

**Pathology and Laboratory Medicine**

Robert L. Hunter, Jr., M.D., Ph.D.
Professor and Chair
Distinguished Chair in Molecular Pathology

**Pediatric Surgery**

Kevin P. Lally, M.D.
Professor and Chair
Richard Andrassy, M.D., Endowed Distinguished Professor and A.G. McNee Chair in Pediatric Surgery

The Division of Pediatric Surgery at The University of Texas Medical School was established in 1973 under the direction of Dr. Benjy Brooks, the first female pediatric surgeon in the country. The Division of Pediatric Surgery became the Department of Pediatric Surgery in 2007 and has eight divisions: General & Thoracic Surgery, Neurosurgery, Plastic & Craniofacial Surgery, Cardiovascular Surgery, Acute Care Practitioners, Urology, Regenerative Medicine, and Orthopedic Surgery. Our divisions are composed of outstanding clinicians and researchers whose skills and expertise cover all major areas of pediatric surgery and different fields of scientific investigation.

Our faculty enjoy teaching and provide the residents with guided independence in patient care and operative experience. The pediatric surgery residents rotate through a variety of hospitals in the Texas Medical Center during their two-year training period. The goal of the pediatric surgery residency training program is to prepare residents to become safe, qualified, and board-certified pediatric surgeons and to be the teachers, researchers, and future leaders in the field of pediatric surgery.

The UT pediatric surgical team partners with the Children’s Memorial Hermann Hospital (CMHH), the Children’s Cancer Hospital at MD Anderson, Harris County Hospital District / LBJ Hospital, and Women’s Hospital. We offer emergency and continued care for pediatric trauma patients from our Level 1 trauma facility based at CMHH. Our UT surgical team collaborates with outstanding health care professionals in our partner facilities to care for each child and their family.

utsurg.uth.tmc.edu/pedisurgery

**NUMBERS**

Faculty: 24
General Pediatric Surgical Fellows: 2
Research Expenditures: $746,500
Patient Encounters: 13,310
PEDIATRICS

Brent King, M.D.
Professor and Interim Chair
Nancy, Clive and Pierce Runnells Distinguished Chair in Neuroscience of the Vivian L. Smith Center for Neurological Research and Nancy, Clive and Pierce Runnells Distinguished Professor in Emergency Medicine

The mission of Department of Pediatrics is to provide the highest quality of medical care; to advance the knowledge in biomedical and behavioral sciences through the expansion of our research programs; and to provide excellence and innovation in the training of students, residents, fellows, and physicians.

As one of the sites of the National Institutes of Health Multicenter Neonatal Intensive Care Network grants, our faculty have contributed to a variety of major advances in the care of newborn infants. The department also has a Pediatric Research Center whose investigators are involved in clinical, basic, and translational research and are experts in the fields of birth defects, gene discovery, transgenic mouse genetics, lung biology, immunology, protein biochemistry, and cell imaging.

The department’s specialized centers include the Center for Clinical Research and Evidence-Based Medicine, which promotes high-quality clinical research to increase the public’s healthy years of life. The goal of our Children’s Learning Institute is to be the pre-eminent source for proven clinical and educational programs covering early childhood through late teens. The department also directs the Forensic Assessment Center Network whose mission is to correct the disparities in Texas in the availability of quality medical assessment for suspected child abuse and neglect victims and to improve the outcomes for all Texas child abuse victims.

Fellowships are offered in the disciplines of Adolescent Medicine, Pediatric Cardiology, Infectious Diseases, Interventional Pediatric Cardiology, Critical Care, Gastroenterology, Neonatology, Nephrology, Pulmonology, and Endocrinology.

First-rate inpatient care is provided at Children’s Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, MD Anderson Cancer Center, and Shriner’s Hospital.

(numbers)
- Faculty: 154
- Residents: 103
- Fellows: 34
- Postdocs: 7
- Research Expenditures: $62,789,365
- Patient Encounters: 83,803

ped1.med.uth.tmc.edu

PHYSICAL MEDICINE AND REHABILITATION

Gerard E. Francisco, M.D.
Clinical Professor and Chair

The Department of Physical Medicine and Rehabilitation (PM&R) is dedicated to providing excellent healthcare in the areas of musculoskeletal medicine, electrodiagnosis, and rehabilitation of persons with spinal cord injury, traumatic brain injury, stroke, multiple sclerosis, and other neurologic and medical conditions in Houston and the surrounding community.

We are dedicated to the training, education, and research in these areas in cooperation with TIRR Memorial Hermann, Memorial Hermann – Texas Medical Center, and the Lyndon B. Johnson General Hospital.

The department is a member of the PM&R Alliance of The University of Texas Medical School and Baylor College of Medicine, which is a unique and successful arrangement between the PM&R departments of two medical schools established in 1996 to share resources in education and research. It is committed to providing the highest quality of graduate and postgraduate fellowship training for physiatrists.

Research at the UTHealth Motor Recovery Laboratory at TIRR Memorial Hermann is dedicated to discovering novel methods of enhancing functional recovery from neurological disorders, such as stroke, spinal cord injury, and traumatic brain injury. Specific interests include robotic rehabilitation, breathing-controlled non-invasive brain stimulation, and spasticity management.

We are also an integral part of the federally-funded Model Systems of Care for both Traumatic Brain Injury and Spinal Cord Injury based at TIRR Memorial Hermann. In addition, faculty members are recognized leaders in international and national PM&R and multi-specialty organizations, and have been strong advocates for persons with disabilities.

(numbers)
- Faculty: 16
- Residents: 11
- Fellows: 3
- Research Expenditures: $411,377

uth.tmc.edu/schools/med/phymed
The Department of Psychiatry and Behavioral Sciences is dedicated to the mission of education, research, and patient care.

Our educational programs train students, residents, and fellows of today to become the mental healthcare leaders of tomorrow – whether in public or private sectors, in solo or group practice, as researchers, educators, or clinicians.

Our faculty and staff are at the forefront of the exploration of the causes and treatments of mental illnesses, with a total of over $6 million in grant support. We have centers focused on both mood disorders research and addiction research. In addition, our faculty members have a wide variety of mental health research interests that they pursue in conjunction with their clinical and educational involvement with the department.

The Department of Psychiatry and Behavioral Sciences provides innovative approaches to the treatment of patients in public and private hospitals, including specialty units at Harris County Psychiatric Center that serve several unique patient populations, from those with mood disorders to those with schizophrenia. We also have ambulatory care programs. Our skills and technology are balanced with compassion and respect for the patients we serve.

We make the mental healthcare of the community a priority. We reach out to the community by providing educational programs and supporting the public service activities of our faculty and staff who volunteer in many capacities for community-based professional and mental health advocacy organizations.

Members of the Department of Psychiatry and Behavioral Sciences are always seeking ways to improve the fulfillment of our missions – the processes, people, and technology involved – and set new standards of excellence, while being mindful of the latest and future technologies impacting our field. From both an educational and clinical viewpoint, we accept the challenge of demonstrating the cost-effectiveness of our mission.

med.uth.tmc.edu/departments/psychiatry

NUMBERS
Faculty: 51
Residents: 42
Fellows: 34
Postdocs: 7
Research Expenditures: $4,384,743
Patient Encounters: 83,803

The Department of Surgery and its divisions are committed to excellence in patient care, innovative research, and mentoring the next generation of surgeons.


Our location within the Texas Medical Center, the largest medical center in the world, gives our surgeons, researchers, and residents unique opportunities for collaboration and clinical experience.

Our department offers residency programs in General Surgery, Plastic and Reconstructive Surgery, Urology, and Colon and Rectal Surgery. Fellowships are offered in Surgical Critical Care, Trauma Research, Female Urology and Urodynamics, Minimally Invasive Surgery, Renal Transplantation, Plastic and Burns, and Pediatric Surgery.

The Department of Surgery and its divisions are involved in collaborative research efforts throughout the Texas Medical Center, including the Center for Translational Injury Research, the Trauma Research Center, and Nutritional Research.

Excellent clinical services are provided at Memorial Hermann – Texas Medical Center, Lyndon B. Johnson General Hospital, Methodist Hospital, St. Luke’s Episcopal Hospital, MD Anderson Cancer Center, Triumph Hospital, Park Plaza, Spring Branch Medical Center, TIRR Memorial Hermann, UT Physicians-Bellville, Christus St. Catherine’s, Healthsouth, Pedi Woodlands Clinic, Smith Tower, Texas Liver Center, Twelve Oaks Medical Center, Ambulatory Surgery Center, and Bayshore Medical Center.

utsurg.uth.tmc.edu

NUMBERS
Residents: 61
Faculty: 55
Fellows: 11
Research Expenditures: $3,346,278
Patient Encounters: 69,405
UT Physicians

UT Physicians is the medical group practice of the Medical School. Its primary purpose is to facilitate and expand the Medical School faculty's ability to provide health care services to the community. The majority of the outpatient care provided by Medical School faculty takes place in UT Physicians clinics located in The University of Texas Health Science Center Professional Building, across the street from the Medical School. Other locations exist around the Houston region to better serve the community, including locations in Bellaire, Katy, and Sienna Village.

UT Physicians has more than 900 physicians certified in 80 medical specialties and subspecialties. Providing multi-specialty care for the entire family, UT Physicians helps patients needing urgent, highly specialized or complex care and also provides high-quality, wellness-oriented primary care for routine illnesses and maintenance of good health.

Memorial Hermann – Texas Medical Center

Memorial Hermann – Texas Medical Center, a partner in the Memorial Hermann Healthcare System, is the primary teaching hospital of the UT Medical School in the Texas Medical Center.

Founded in 1925, this large metropolitan hospital, licensed for 736 beds, has a long-standing record of distinction in postgraduate teaching.

It offers a broad range of inpatient services with special units for coronary and intensive care, newborn intensive care, treatment of burns, kidney disease and transplantation, advanced diagnostic facilities, a clinical research center, and emergency services.

The hospital serves as the center of inpatient clinical activity for the Medical School's faculty.

Children's Memorial Hermann Hospital

Children's Memorial Hermann Hospital has been serving the community for over 20 years and is the primary teaching hospital for the pediatrics and obstetrics/gynecology programs at The University of Texas Medical School at Houston.

A recent facility expansion increased its capacity to 278 beds, making Children's one of the country's largest pediatric hospitals. Its Women's Center operates an additional 68 beds. The facility offers colorful décor and special play areas for children. Education and support services for families are also available, as are services for international patients.

The hospital includes a dedicated pediatric emergency center and the largest Level I trauma center in Houston fully equipped to treat pediatric patients.

Neonatal critical care services are available for infants and premature babies born as early as 23 weeks' gestation.
Harris County Hospital District’s Lyndon B. Johnson General Hospital

The Lyndon B. Johnson (LBJ) General Hospital, owned and operated by the Harris County Hospital District, is the second primary teaching facility for the Medical School.

This 332-bed hospital opened in 1989 and is a full-service general hospital with easy access for the indigent patients it serves.

Health care services for the hospital district are provided by Affiliated Medical Services (a nonprofit organization composed of UT faculty), which staffs LBJ, and Baylor College of Medicine, which staffs Ben Taub General Hospital.

UT MD Anderson Cancer Center

The University of Texas MD Anderson Cancer Center, located in the Texas Medical Center, is widely regarded as one of the world’s foremost centers for cancer care, research, education, and prevention. Since its opening in 1944, MD Anderson has treated more than 600,000 patients with cancer and allied diseases in its inpatient and outpatient services. The institution also houses a large clinical and basic science research program devoted to the investigation of the biology of cancer and includes active units in biochemistry, biological response modifiers, biophysics, molecular biology, pathology, pharmacology, cell biology, and cancer prevention.

MD Anderson Cancer Center participates in a wide range of training programs involving more than 2,900 students annually in the sciences and health professions.

UT Harris County Psychiatric Center

The UT Harris County Psychiatric Center (HCPC), which opened in 1986, is a 222-bed public acute care psychiatric hospital that delivers a comprehensive program of psychiatric and clinical social services to more than 5,000 patients annually. The center plays an important role as a teaching facility for medical and nursing schools across Texas and Louisiana.

Operated by The University of Texas Health Science Center at Houston, the facility is jointly supported by the State of Texas and Harris County under the auspices of the Texas Department of State Health Services and the Mental Health and Mental Retardation Authority of Harris County, respectively. The Medical School’s Department of Psychiatry and Behavioral Sciences provides administrative leadership and medical services for the center.
BY THE NUMBERS

MEDICAL SCHOOL STUDENTS ENTERING CLASS STATISTICS

2009

MCAT Average Score 32
Grade Point Average 3.7

2010

MCAT Average Score 30.9
Grade Point Average 3.74

2011

MCAT Average Score 31
Grade Point Average 3.73

2011 RESIDENTS AND FELLOWS

Number of ACGME residencies ................................................. 25
Number of ACGME fellowships .............................................. 37
Number of Texas Medical Board Fellowships/non-ACGME ........ 36
Total residencies and fellowships by specialty ....................... 98
Total number of ACGME residents ........................................... 697
Total number of ACGME fellows ............................................. 151
Total number of Texas Medical Board/non-ACGME fellows ...... 36
Total number of Oral and Maxillofacial Surgery Dental Residents .. 22
Total residents and fellows enrolled ....................................... 906

WHERE MEDICAL SCHOOL ALUMNI LIVE*

* known addresses include resident alumni

TOP TEN STATES FOR ALUMNI

Texas ........................................... 6,374
California .................................. 613
Florida .................................... 382
North Carolina ............................ 223
Colorado ................................... 190
Georgia .................................... 171
New York ................................... 171
Louisiana .................................. 167
Arizona .................................... 163
Tennessee ................................... 148
Virginia ................................... 142
**Medical School Graduating Class Top Specialty Choices**

<table>
<thead>
<tr>
<th>Year</th>
<th>Specialty</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>Internal Medicine</td>
<td>13%</td>
</tr>
<tr>
<td></td>
<td>Anesthesiology</td>
<td>10.5%</td>
</tr>
<tr>
<td></td>
<td>Obstetrics/Gynecology</td>
<td>8.5%</td>
</tr>
<tr>
<td></td>
<td>Pediatrics</td>
<td>8.5%</td>
</tr>
<tr>
<td></td>
<td>Surgery (General)</td>
<td>9.4%</td>
</tr>
<tr>
<td></td>
<td>Family Medicine</td>
<td>8.9%</td>
</tr>
</tbody>
</table>

**International Institutions with Activities/Collaborations with the Medical School**

- **Brazil**
  - University of Caxias do Sul
  - University of Sao Paulo
- **Colombia**
  - Universidad El Bosque
- **Greece**
  - National and Kapodistrian University of Athens
- **Hungary**
  - University of Debrecen
- **India**
  - Sikkim Manipal University
- **Japan**
  - Nagoya University
  - The University of Tokushima
- **Korea**
  - Sogang University, Department of Life Science
- **Mexico**
  - Universidad Autonoma de Guadalajara
  - Universidad Autonoma de Nuevo Leon
- **New Zealand**
  - Massey University
- **Panama**
  - University of Panama
- **People’s Republic of China**
  - Capital Medical University
  - Institute of High Energy Physics, Chinese Academy of Sciences
  - Soochow University
  - Taizhou City Government
  - The First Affiliated Hospital of Soochow University
  - Xiamen University
  - The First Affiliated Hospital of Soochow University
- **Republic of China (Taiwan)**
  - China Medical University
  - China Medical University
  - Fu-Jen Catholic University
  - Taipei Medical University
  - University of Ljubljana
**Proposals, Contracts and Grant Awards**

![Bar chart showing proposals and contracts from FY 09 to FY 11.]

**Intellectual Property Activity**

<table>
<thead>
<tr>
<th>Category</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invention Disclosures</td>
<td>37</td>
<td>46</td>
<td>55</td>
</tr>
<tr>
<td>New US Patent Application Files</td>
<td>20</td>
<td>41</td>
<td>35</td>
</tr>
<tr>
<td>Licenses/Options Executed</td>
<td>17</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>Licenses/Options Generating Income</td>
<td>71</td>
<td>85</td>
<td>81</td>
</tr>
<tr>
<td>US Patents Issued</td>
<td>4</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Startup Companies Formed</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**Research Expenditures**

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Expenditures (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 09</td>
<td>$117,100,274</td>
</tr>
<tr>
<td>FY 10</td>
<td>$154,081,498</td>
</tr>
<tr>
<td>FY 11</td>
<td>$183,107,068</td>
</tr>
</tbody>
</table>
### Total Revenues vs. Expenses of the UT Medical School’s Practice Plan

**FY 09**
- Total Operating Revenues: $256,831,680
- Total Operating Expenses: $245,250,955

**FY 10**
- Total Operating Revenues: $293,900,000
- Total Operating Expenses: $287,500,000

**FY 11**
- Total Operating Revenues: $316,754,402
- Total Operating Expenses: $306,303,067

### Outpatient Encounters - UT Physicians

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Encounters</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 09</td>
<td>206,239</td>
</tr>
<tr>
<td>FY 10</td>
<td>235,030</td>
</tr>
<tr>
<td>FY 11</td>
<td>271,084</td>
</tr>
</tbody>
</table>

### Gross Patient Charges of the UT Medical School’s Practice Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Dollars in millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 09</td>
<td>$536,681,089</td>
</tr>
<tr>
<td>FY 10</td>
<td>$605,500,000</td>
</tr>
<tr>
<td>FY 11</td>
<td>$642,681,353</td>
</tr>
</tbody>
</table>
Uncompensated Charity Care*

Uncompensated Care includes the unreimbursed costs for the uninsured (those with no source of third party insurance) and the underinsured (those with insurance who after contractual adjustment and third party payments have a responsibility to pay for an amount they are unable to pay). Uncompensated care also includes the unreimbursed cost from government-sponsored health programs.

The institution identifies the gross charges for uncompensated care by identifying the payer categories where the cost of care exceeds the appropriate, available funding.

The institution converts gross charges for uncompensated care to cost by relating them to the Medicare fee schedule on an aggregate weighted average basis. The institution recognizes payments from patients, government-sponsored programs and other appropriate lump sums, including any amounts received from Upper Payment Limit, as funding available to offset costs. The appropriate funding is applied to the cost of care for each payer category and uncompensated care is identified where the cost of care exceeds the available funding.

Fund-raising Commitments to the Medical School

Donations to the Medical School
Donor List - FY 2010 and 2011 Gifts to the Medical School

Greater than $1 million
Cullen Trust for Higher Education
The Cynthia and George Mitchell Foundation
John P. McGovern Foundation
Memorial Hermann Foundation
Mr. James W. Stewart
$500,000 - $999,999
Mr. Joe B. Foster
The Vivian L. Smith Foundation for Neurologic Research
$250,000 - $499,999
The Brown Foundation, Inc.
Mr. William T. Deffebach
Foundation for Advances in Therapeutic and Prevention
Greater Houston Community Foundation
Jasper L. and Jack Denton Wilson Foundation
Joe Levit Family Foundation
Legacy Trust
Nancy and Clive Runnells Foundation
Pierce Runnells Foundation
Mr. Dean Pisani
Mr. Patrick R. Rutherford
Dr. and Mrs. Cheves Smythe
Stanford and Joan Alexander Foundation
Still Water Foundation
$100,000 - $249,999
The Center for AIDS
Clayton Foundation for Research
The Ellwood Foundation
Dr. and Mrs. Sebastian Faro
Greater Houston Community Foundation
Hermann Eye Fund
Houston Endowment Inc.
Madison Charitable Foundation Inc
Memorial Hermann Hospital System
Mr. and Mrs. Brian E. O’Brien
Reach Out and Read, Inc.
Richard J. Massey Foundation for Arts and Sciences
Dr. Arthur Sands
Mr. and Mrs. David A. Smith
Mr. Ed Smith
Mr. George D. Smith
Mr. Mitchell S. Smith
Smitty’s Supply, Inc.
$50,000 - $99,999
American Society for Metabolic & Bariatric Surgery
Mrs. Alison Baumann
Bernard & Audre Rapoport Foundation
Brian E. O’Brien Oil & Gas
The Crawford and Hattie Jackson Foundation
Mr. Steven Gordon
Mr. and Mrs. Ronald Krist
Mr. and Mrs. Robert T. Ladd
Nanologix Inc
Nightingale Code Foundation
Peter F. McManus Charitable Trust
PLX Pharma, Inc.
Mr. Herbert F. Poynor, Jr.
Mrs. Carroll R. Ray
Ms. Lillie T. Robertson
Mr. Faye S. Sarofim
Mrs. Diana Weil
William and Ella Owens Medical Research Foundation
Windmill Cardiovascular Systems
$10,000 - $49,999
Abbott Laboratories Fund
ADA Resources, Inc.
Arena Energy Foundation
Baxter Healthcare Corporation
BioGaia AB
Mr. and Mrs. Ben M. Brigham
Dr. and Mrs. Staley A. Brod
The Brown Foundation, Inc.
Mr. and Mrs. Philip J. Burguières
Mr. and Mrs. Kung-Ying Chiu
Cyvia and Melyn Wolf Family Foundation
The Damon Wells Foundation
Dealer Computer Services, Inc.
Dedicated Solutions, Inc.
The Edward and Ellen Randall Foundation
Elisabeth C. Greenbaum Trust
EOG Resources-Matching Gifts Administrator
Eye Care Consortium of Texas
Mr. and Mrs. Kenneth T. Fibich
Friedman Foundation
Dr. and Mrs. Yong-Jian Geng
George and Mary Josephine Hamman Foundation
Mr. Steven L. Gordon
Mr. and Mrs. David T. Harvin
Hemophilia of Georgia, Inc.
Herbert and Carol Zieben Foundation
Hickory Hills Investments, Ltd.
David B. Hoon
Houston Jewish Community Foundation
James R. Crane Foundation
The Kanaly Foundation
Kanaly Trust Company
Mr. and Mrs. J.L. Kosberg
Mr. and Mrs. Christopher Landherr
Let’s Cure CP Inc.
Laura and John Arnold Foundation
Ms. Leah L. Lewis
Mr. and Mrs. Meredith J. Long
The Lyons Foundation
Mr. and Mrs. Louis E. Magne
Mr. and Mrs. Clarence E. Mayer, Jr.
Dr. and Dr. Emmanuel Melissinos
Mr. and Mrs. Lucian L. Morrison
National Multiple Sclerosis Society
Mr. and Mrs. Walter L. New
Mr. and Mrs. Ralph O’Connor
O’Neill Foundation
Mr. Charles A. O’Neill III
Mr. and Mrs. Mark G. Papa
Peter & Anne Pratt Family Foundation
Mr. and Mrs. Edward Randall III
Mr. and Mrs. Jesus G. Romero
Ms. Louisa S. Sarofim
Schwab Fund for Charitable Giving
Scott & White Healthcare
Mr. and Mrs. Terrance M. Smith
Estate of Caroline Noack Sned
The Society for Cardiovascular Angiography and Interventions
Southeast Texas Trauma Regional Advisory Council
Spindletop Charities, Inc.
Mr. James W. Stewart
Stryker Orthopaedics
T. Ragan Ryan Foundation, Inc.
Dr. and Mrs. Heinrich Taegeymeyer
Teva Neuroscience, Inc.
Mr. and Mrs. John J. Toomey
The University of Texas Foundation Inc.
W.L. Gore & Associates, Inc.
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Dr. Kaige Wang
Mr. and Mrs. Perry M. Waughbly
Melanie B. Gray and Mark Wawro
Ms. Nadia Z. Wellisz
William S. & Lora Jean Kilroy Foundation
Mrs. Cynthia R. Wright
$1,000 - $9,999
Abzyme Research Foundation (ARF)
Acme Truck Lines, Inc.
Dr. and Mrs. Phillip R. Adams
Mr. and Mrs. Avinash Ahuja
Michael E. Albright, M.D.
Mr. and Mrs. Stanford Alexander
The Alkek and Williams Foundation
Alpha Delta Pi Foundation, Inc.
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American Academy of Pediatrics
The American Board of Obstetrics & Gynecology
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AMS IFF LGX
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Sean C. Blackwell, M.D.
Assistant Dean for Healthcare Quality

Eric C. Eichenwald, M.D.
Assistant Dean for Healthcare Quality

Bela Patel, M.D.
Assistant Dean for Healthcare Quality
Office of Development
7000 Fannin Street
12th floor
Houston, Texas 77030

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